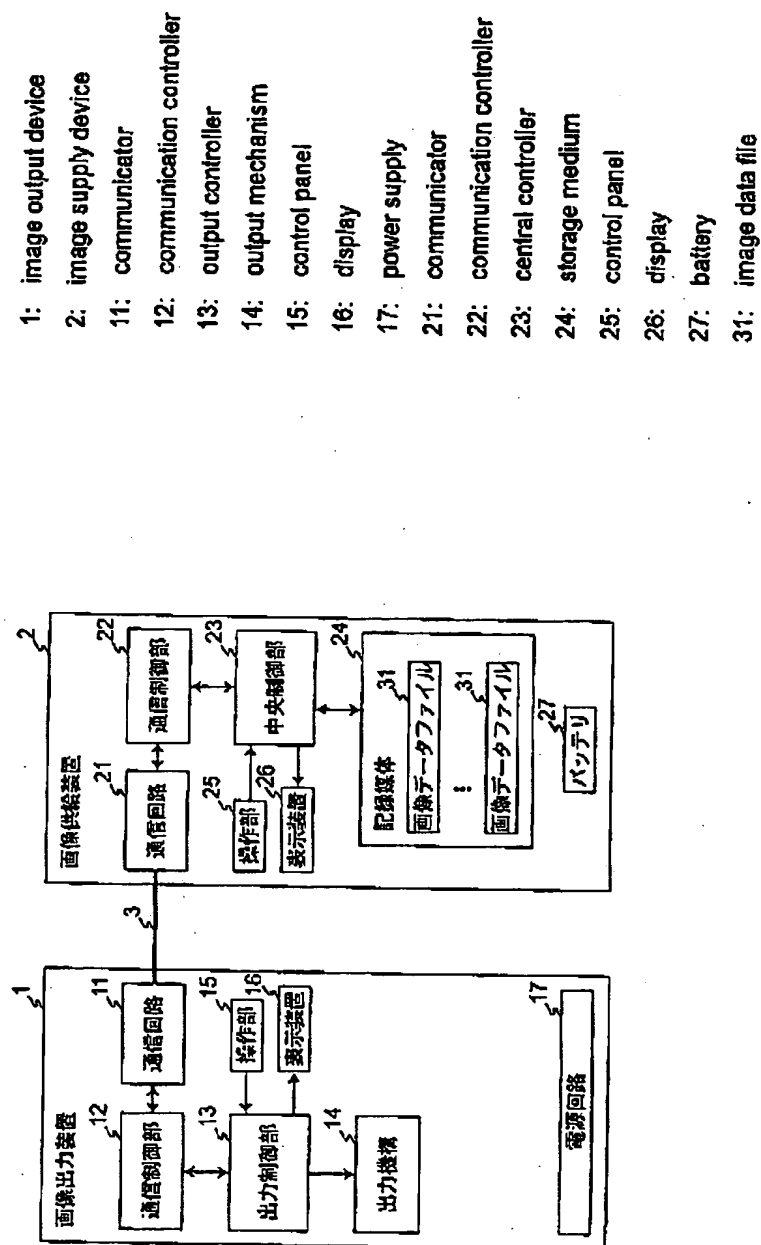


Fig. 1



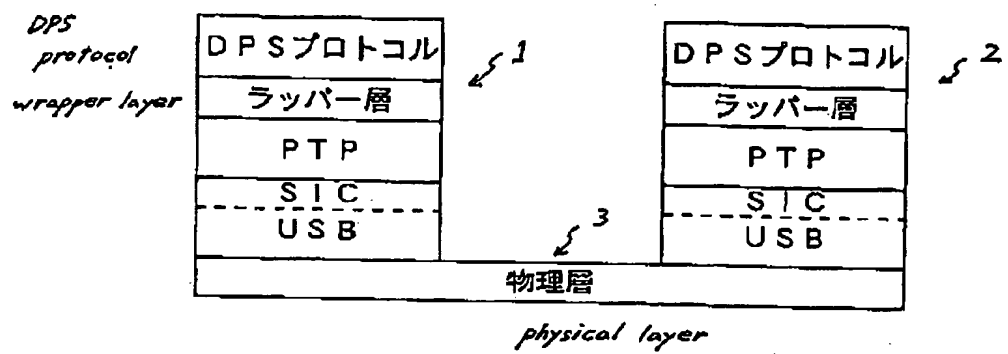
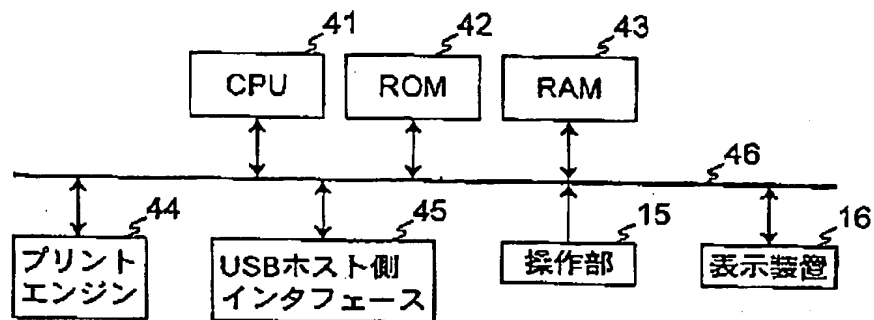


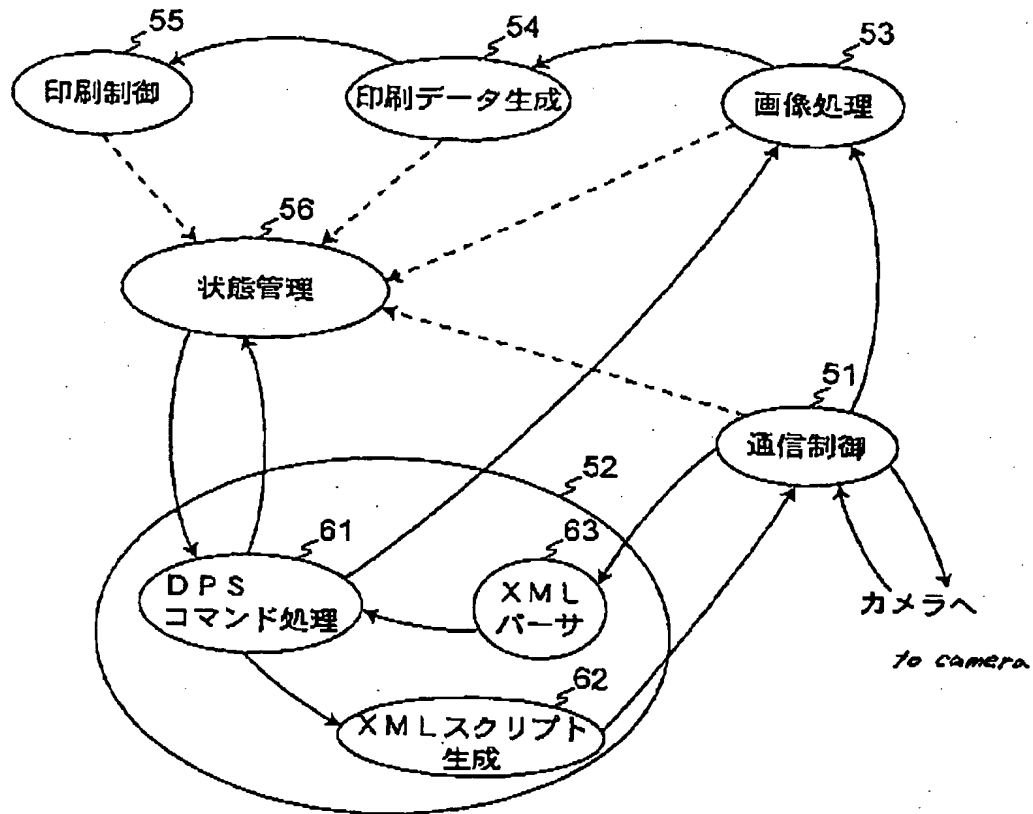
Fig. 2

Fig. 3



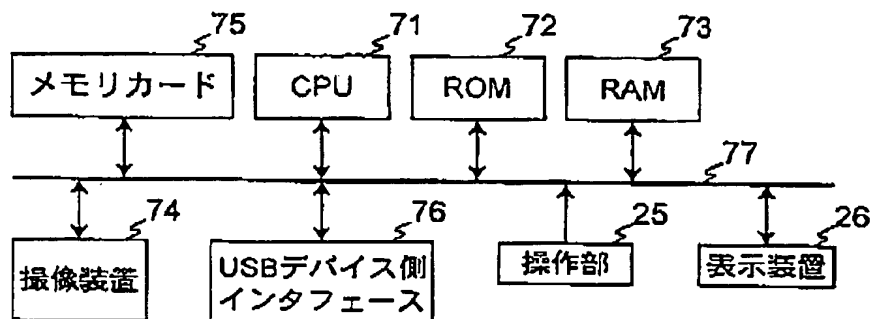
- 15: control panel
- 16: display
- 44: print engine
- 45: USB host interface

Fig. 4



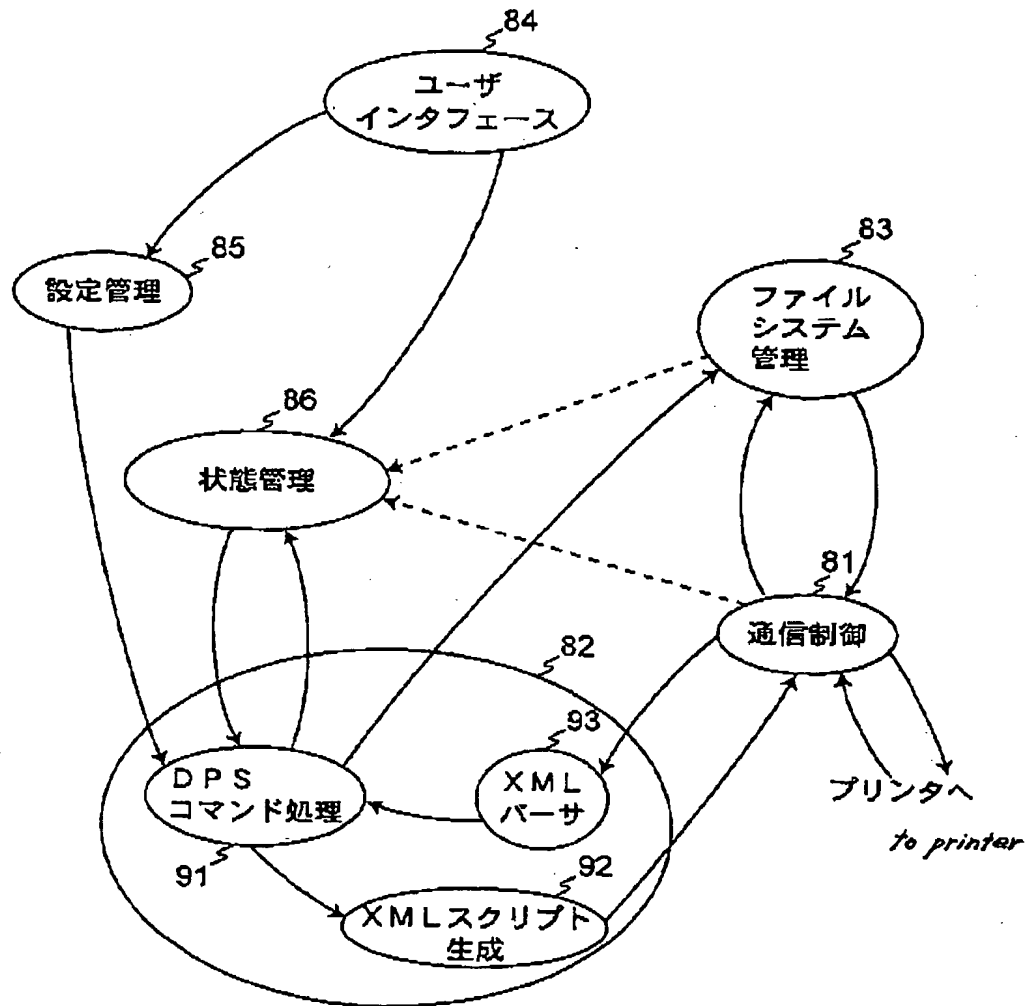
- 51: communication control
- 52: DPS protocol processing
- 53: image processing
- 54: image data generation
- 55: print control
- 56: status management
- 61: DPS command processing
- 62: XML script generation
- 63: XML parser

Fig. 5

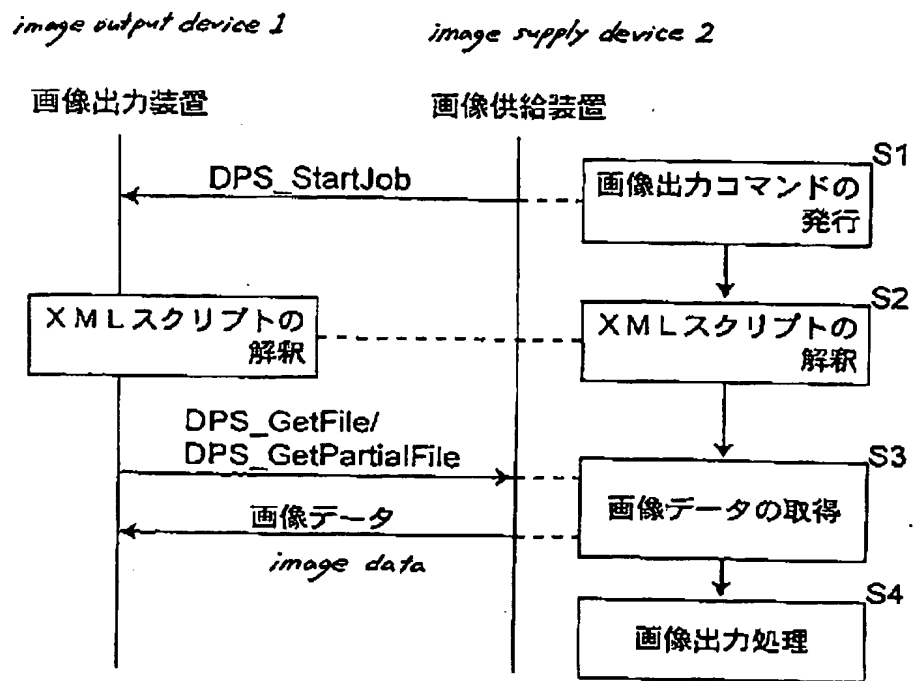


- 25: control panel
- 26: display
- 74: imaging device
- 75: memory card
- 76: USB device interface

Fig. 6



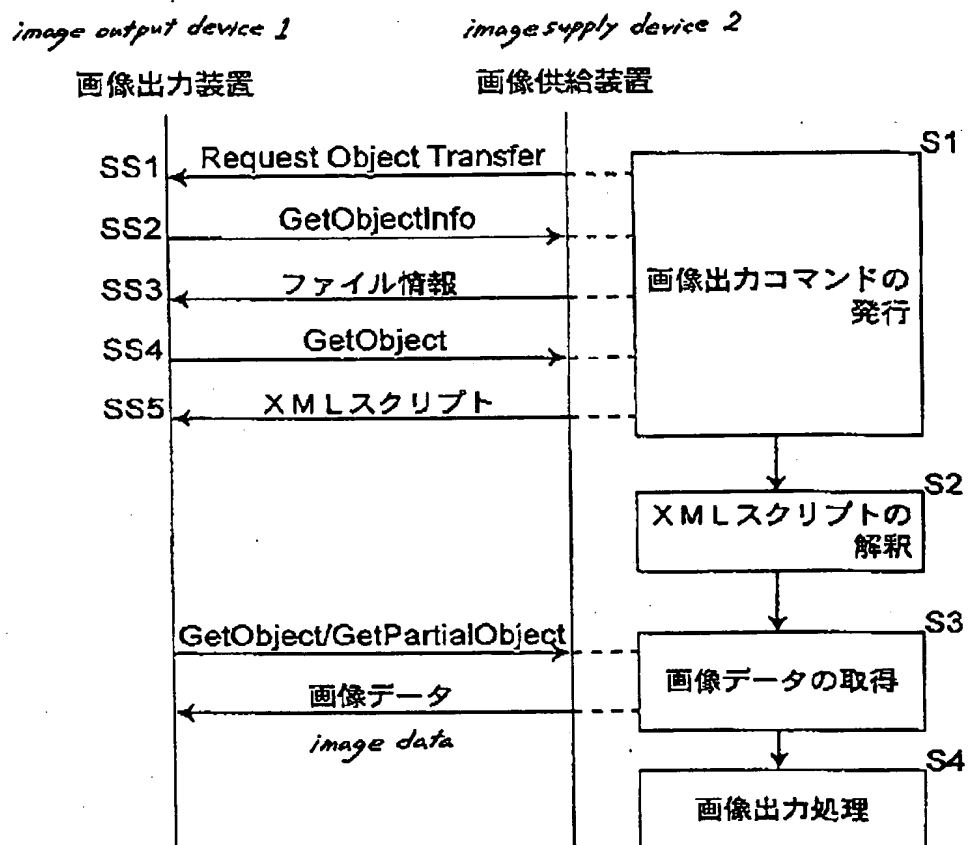
- 81: communication control
- 82: DPS protocol processing
- 83: file system management
- 84: user interface
- 85: setting management
- 86: status management
- 91: DPS command processing
- 92: XML script generation
- 93: XML parser



- S1: transmit image output command
- S2: interpret XML script
- S3: acquire image data
- S4: image output processing

Fig. 7

Fig. 8



S1: transmit image output command

S2: interpret XML script

S3: acquire image data

S4: image output processing

SS3: file information

SS5: XML script

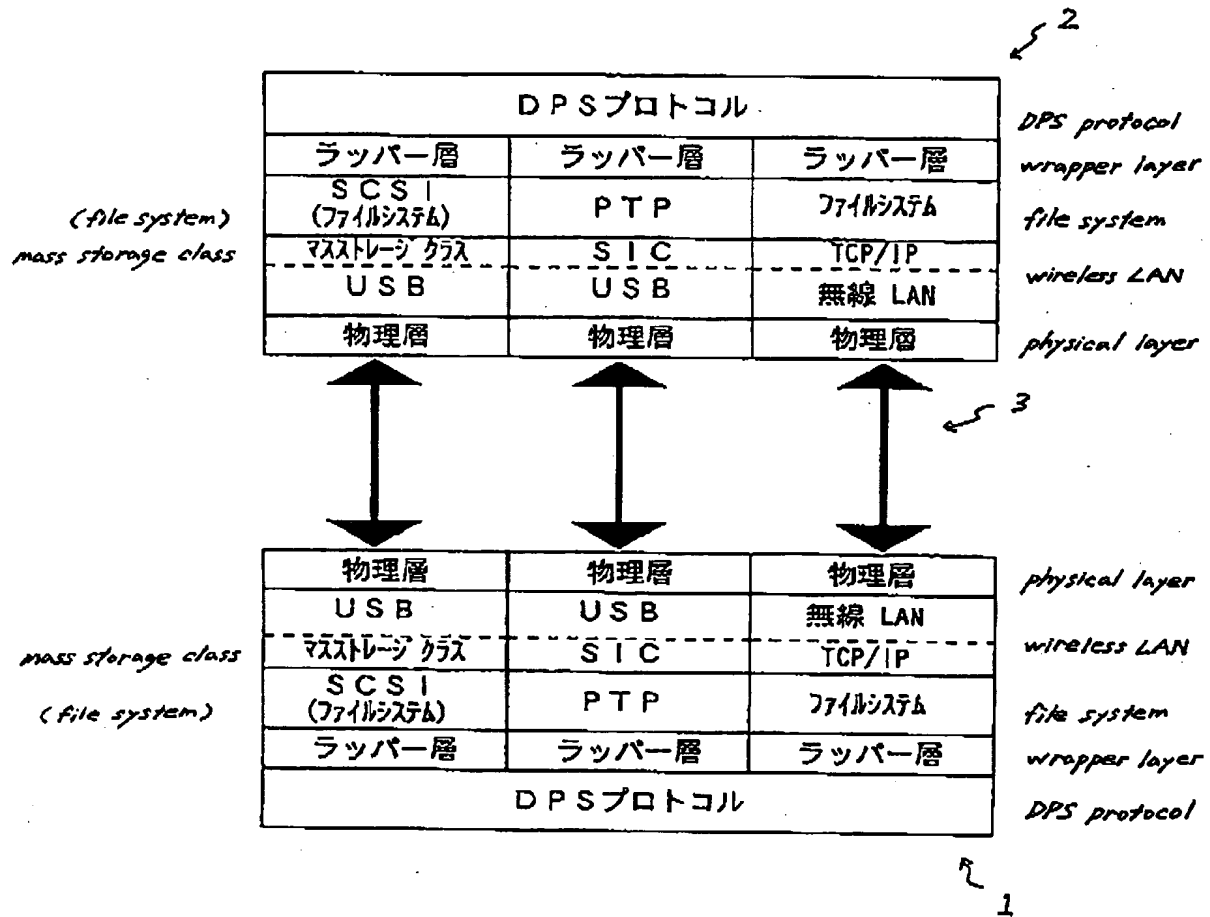
Fig. 9

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <startJobRequest>
    <job>
      <jobConfig>
        <quality>01000000</quality>
        <paperSize>02010000</paperSize>
        <paperType>03020000</paperType>
        <fileType>04150000</fileType>
        <date>05010000</date>
        <fileName>06000000</fileName>
        <imageOptimize>07000000</imageOptimize>
        <layoutItem>08010000</layoutItem>
      </jobConfig>
      <printInfo>
        <image>
          <imageID>00000001</imageID>
          <imageDate>2002/05/30</imageDate>
        </image>
      </printInfo>
    </job>
  </startJobRequest>
</dps>
```

Fig. 10

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <getFileRequest>
    <fileID>00000001</fileID>
    <buffPtr>00100000</buffPtr>
  </getFileRequest>
</dps>
```

Fig. 11



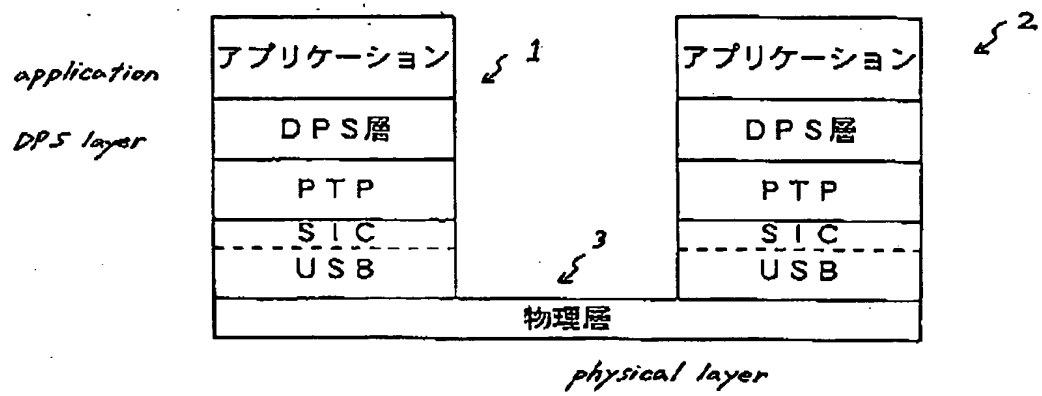


Fig. 12

Fig. 13

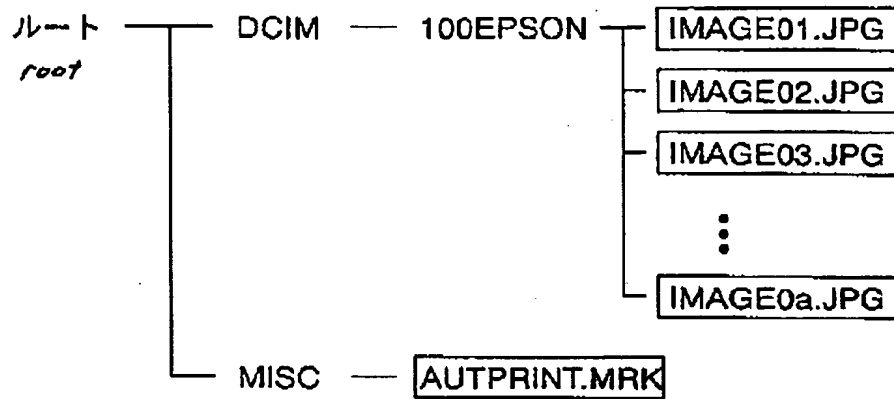


Fig. 14

```
[JOB]
PRT PID = 001
PRT TYP = STD
PRT QTY = 002
IMG SRC = "/DCIM/100EPSON/IMAGE01.JPG"
IMG FMT = EXIF2-J
[JOB]
PRT PID = 002
PRT TYP = STD
PRT QTY = 001
IMG SRC = "/DCIM/100EPSON/IMAGE02.JPG"
IMG FMT = EXIF2-J
[JOB]
PRT PID = 003
PRT TYP = STD
PRT QTY = 001
IMG SRC = "/DCIM/100EPSON/IMAGE03.JPG"
IMG FMT = EXIF2-J
```

Figure 14 displays a series of print job configuration parameters enclosed in a rectangular box. The parameters are organized into three distinct job blocks, each starting with "[JOB]". The first job block (PID 001) specifies a standard print type, a quantity of 2, and the source of the image as "/DCIM/100EPSON/IMAGE01.JPG" in EXIF2-J format. The second job block (PID 002) specifies a standard print type and a quantity of 1, with the image source as "/DCIM/100EPSON/IMAGE02.JPG" in EXIF2-J format. The third job block (PID 003) also specifies a standard print type and a quantity of 1, with the image source as "/DCIM/100EPSON/IMAGE03.JPG" in EXIF2-J format.

Fig. 15

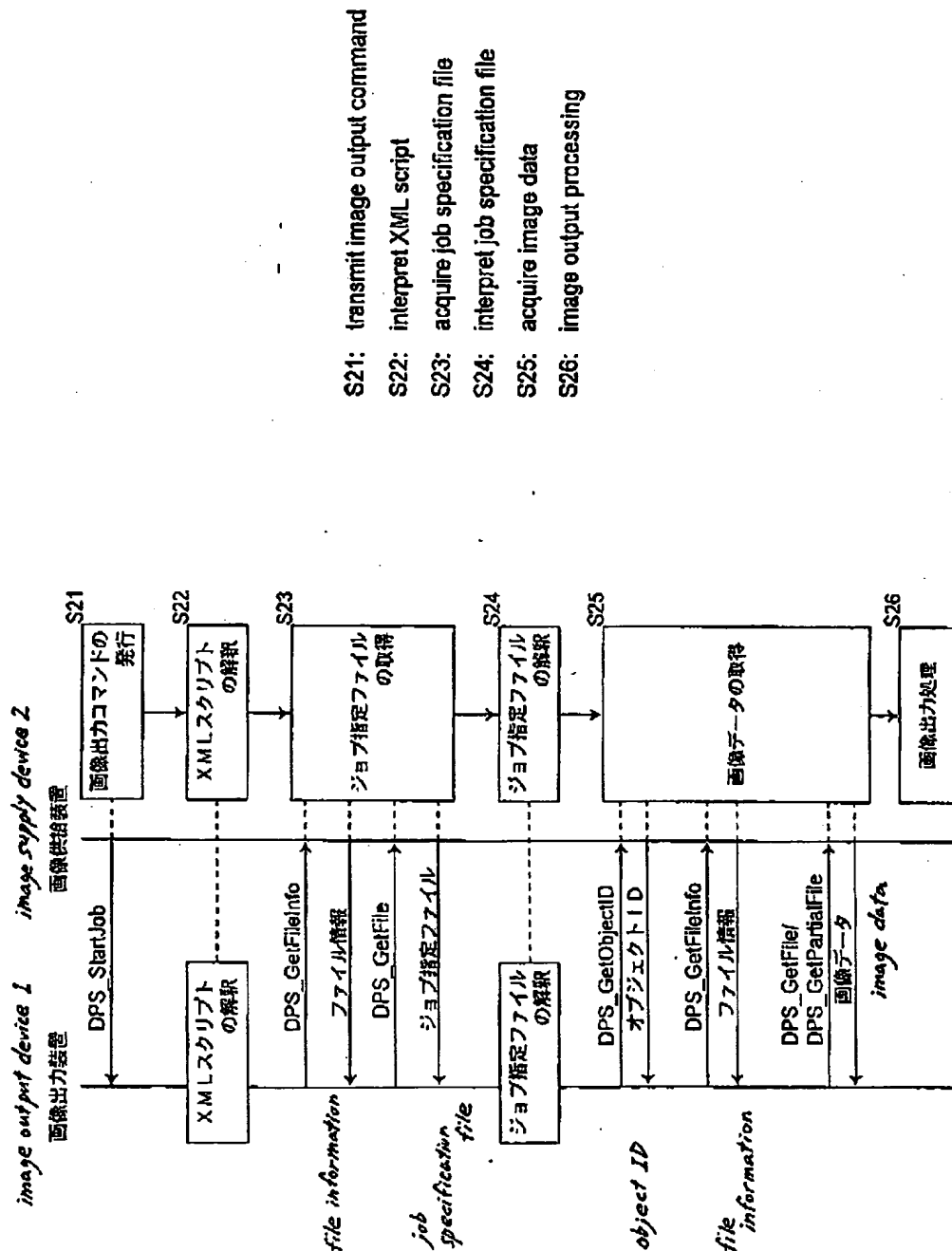


Fig. 17

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <getObjectIDRequest>
    <basePathID>00000002</basePathID>
    <imagePath>..\DCIM\100EPSON\IMAGE.JPG</imagePath>
  </getObjectIDRequest>
</dps>
```

Fig. 18

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <opResult>
    XX000000
  </opResult>
  <getObjectIDResponse>
    <basePathID>00000002</basePathID>
    <imagePath>..\DCIM\100EPSON\IMAGE.JPG</imagePath>
    <imageID>00000002</imageID>
  </getObjectIDResponse>
</dps>
```

Fig. 19

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <getFileInfoRequest>
    <fileID>00000001</fileID>
  </getFileInfoRequest>
</dps>
```

Fig. 20

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <opResult>
    XX000000
  </opResult>
  <getFileInfoResponse>
    <fileType>04000000</fileType>
    <fileSize>1048576</fileSize>
  </getFileInfoResponse>
</dps>
```

Fig. 21

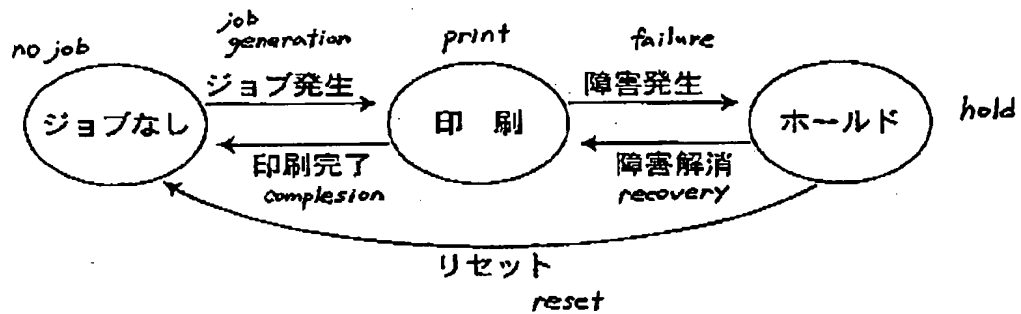
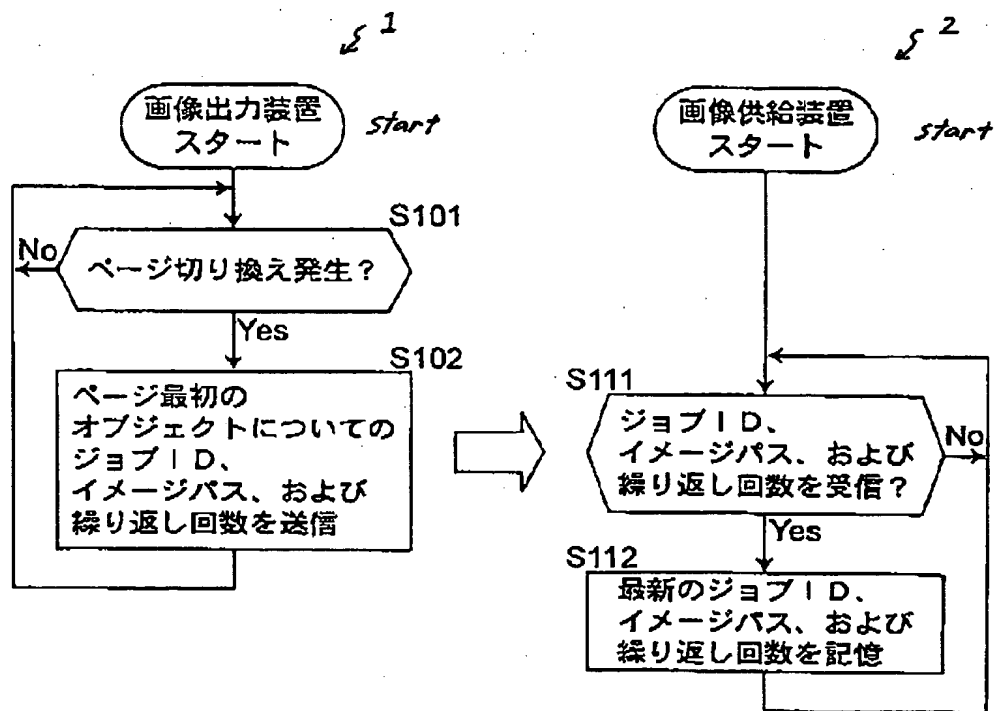


Fig. 22



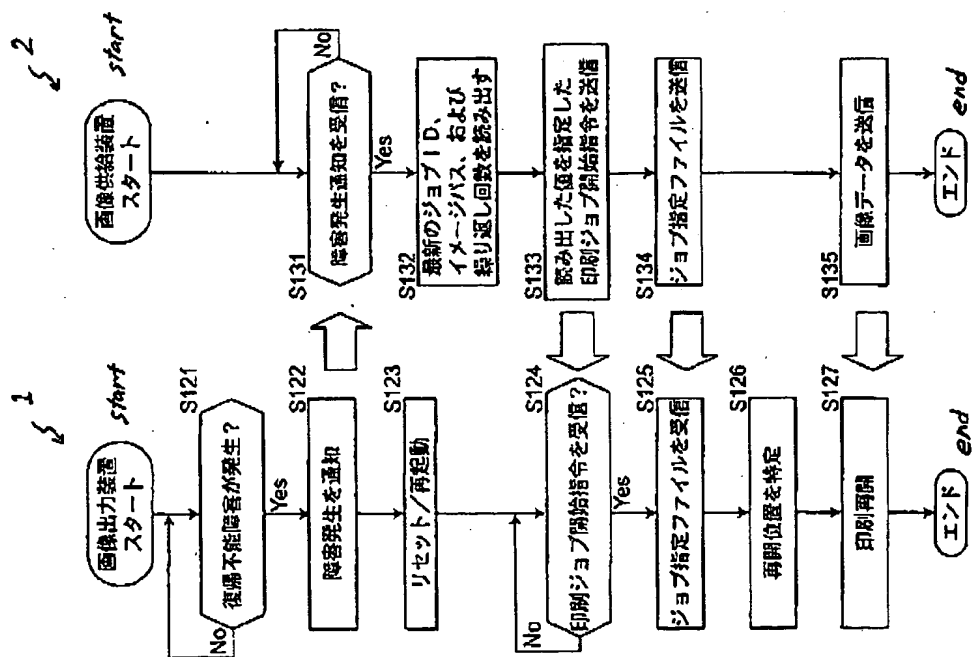
S101: page break is detected?

S102: transmit resumption information of new page

S111: resumption information is received?

S112: update resumption information with received one

Fig. 23



S121: self-unrecoverable failure is occurred?

S122: notify failure occurrence

S123: reset/reboot

S124: print job start command is received?

S125: receive job specification file

S126: specify resumed position

S127: resume printing

S131: failure notification is received?

S132: read latest resumption information

S133: transmit print job start command for specifying read value

S134: transmit job specification file

S135: transmit image data

Fig. 24

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <notifyJobStatusRequest>
    <jStatus>11000000</jStatus>
    <prtPid>000</prtPid>
    <imagePath>..\DCIM\100EPSON\IMAGE.JPG</imagePath>
    <copyId>02</copyId>
    <progress>04/06</progress>
    <jEndReason>10000000</jEndReason>
  </notifyJobStatusRequest>
</dps>
```

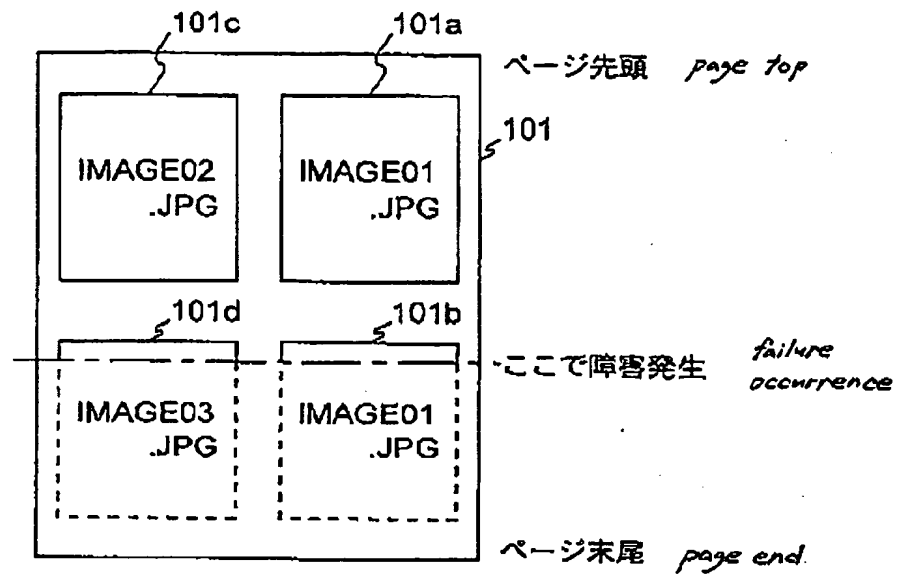
Fig. 25

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <notifyDeviceStatusRequest>
    <errorStatus>0E010000</errorStatus>
    <reason>0F010000</reason>
    <disconnectEnable>10010000</disconnectEnable>
    <capabilityChange>14010000</capabilityChange>
  </notifyDeviceStatusRequest>
</dps>
```

Fig. 26

```
<?xml version="1.0"?>
<dps xmlns="http://www.xxxx">
  <startJobRequest>
    <job>
      <jobConfig>
        <quality>01000000</quality>
        <paperSize>02010000</paperSize>
        <paperType>03020000</paperType>
        <fileType>04150000</fileType>
        <date>05010000</date>
        <fileName>06000000</fileName>
        <imageOptimize>07000000</imageOptimize>
        <layoutItem>08010000</layoutItem>
      </jobConfig>
      <printInfo>
        <image>
          <imageID>00000002</imageID>
          <imageDate>2002/05/30</imageDate>
          <priPid>001</priPid>
          <imagePath>..DCIM\100EPSON\IMAGE.JPG</imagePath>
          <copies>002</copies>
        </image>
      </printInfo>
    </job>
  </startJobRequest>
</dps>
```

Fig. 27



print
resumption

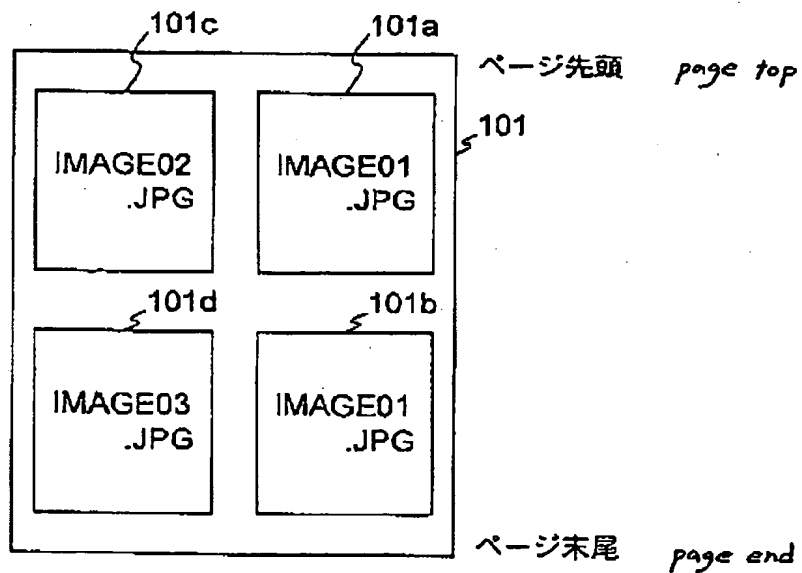
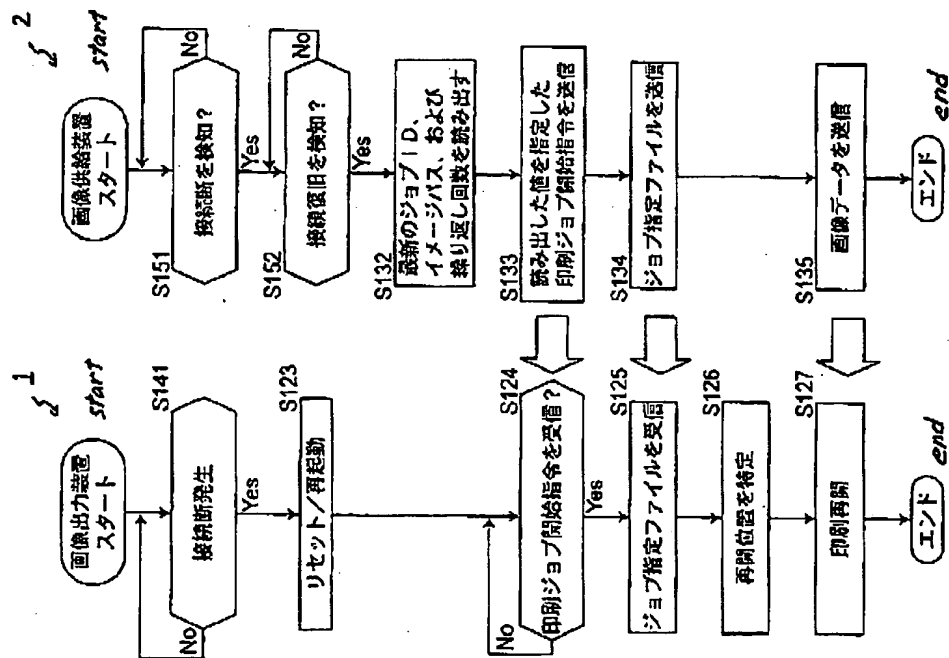


Fig. 28



- S141: disconnection is occurred?
 S123: reset/reboot
 S124: print job start command is received?
 S125: receive job specification file
 S126: specify resumed position
 S127: resume printing
 S151: disconnection is detected?
 S152: connection recovery is detected?
 S132: read latest resumption information
 S133: transmit print job start command for specifying read value
 S134: transmit job specification file
 S135: transmit image data

Fig. 29

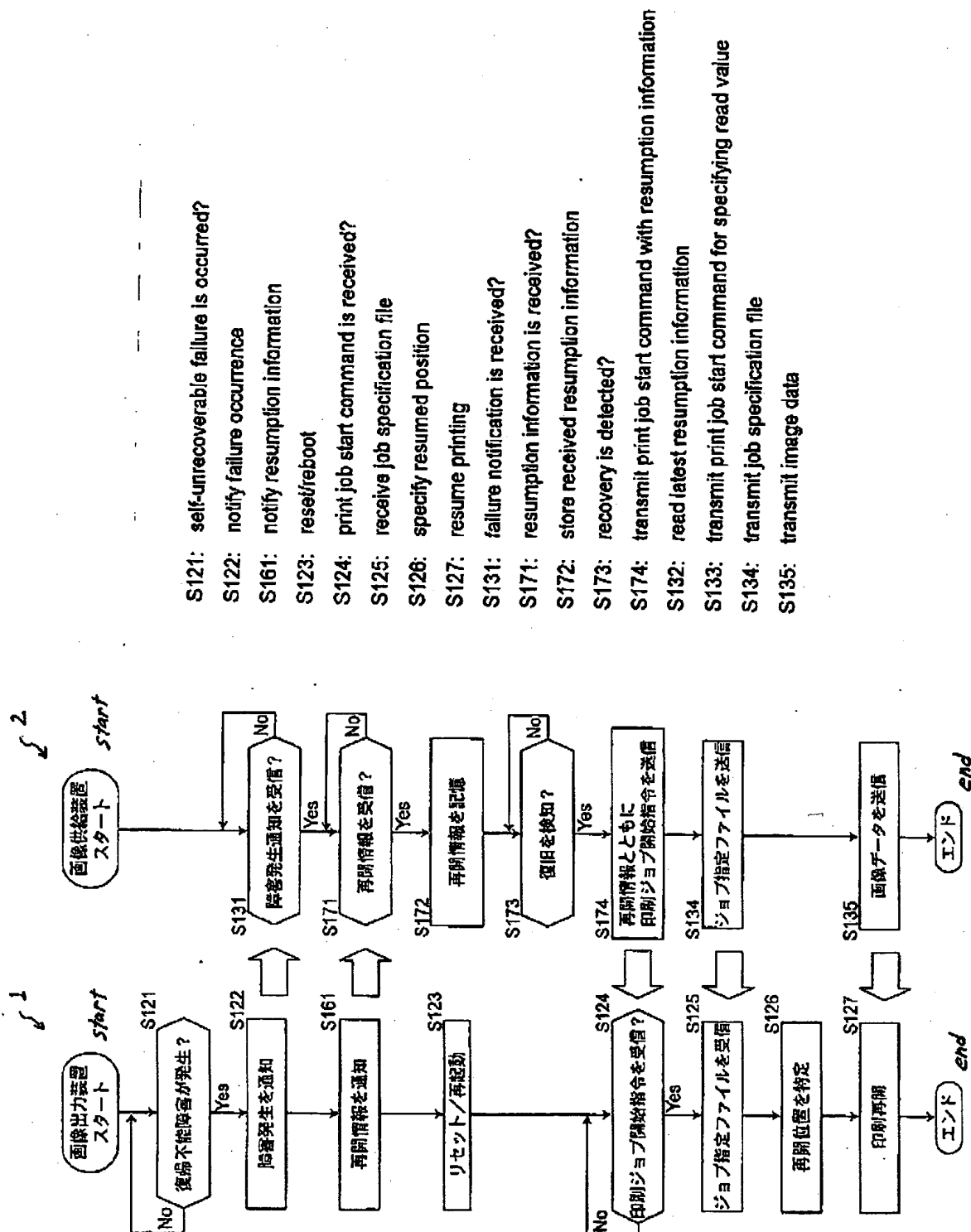


Fig. 30

